DM-FD0003-04

Dealer's Manual

Front derailleur

FD-M9000

FD-M9020

FD-M9025

FD-M8000

FD-M8020

FD-M8025

FD-M612

FD-M617

FD-M618

FD-M672

FD-M677

CONTENTS

IMPORTANT NOTICE 3

TO ENSURE SAFETY 4

INSTALLATION 6

List of tools to be used 6
Installation of the front derailleur 6
Installation of the front derailleur (Front triple) 8
Installation of the front derailleur (Front double) 13

ADJUSTMENT 25

Installing the cable and adjusting the shifting operation (Front triple) 25
Installing the cable and adjusting the shifting operation (Front double) 31

MAINTENANCE 42

Replacing the chain catcher 42
Replacing rubber pad A 44
Replacing rubber pad B 47

IMPORTANT NOTICE

- **This dealer's manual is intended primarily for use by professional bicycle mechanics.**
  Users who are not professionally trained for bicycle assembly should not attempt to install the components themselves using the dealer's manuals. If any part of the information on the manual is unclear to you, do not proceed with the installation. Instead, contact your place of purchase or a local bicycle dealer for their assistance.
- Make sure to read all instruction manuals included with the product.
- Do not disassemble or modify the product other than as stated in the information contained in this dealer's manual.
- All dealer's manuals and instruction manuals can be viewed on-line on our website (**http://si.shimano.com**).
- Please observe the appropriate rules and regulations of the country, state or region in which you conduct your business as a dealer.

For safety, be sure to read this dealer's manual thoroughly before use, and follow it for correct use.

The following instructions must be observed at all times in order to prevent personal injury and physical damage to equipment and surroundings. The instructions are classified according to the degree of danger or damage which may occur if the product is used incorrectly.

⚠ DANGER

Failure to follow the instructions will result in death or serious injury.

⚠ WARNING

Failure to follow the instructions could result in death or serious injury.

⚠ CAUTION

Failure to follow the instructions could cause personal injury or physical damage to equipment and surroundings.

TO ENSURE SAFETY

⚠ WARNING

- **When installing components, be sure to follow the instructions that are given in the instruction manuals.**
  It is recommended to use genuine Shimano parts only. If parts such as bolts and nuts become loose or damaged, the bicycle may suddenly fall over, which may cause serious injury.
  In addition, if adjustments are not carried out correctly, problems may occur, and the bicycle may suddenly fall over, which may cause serious injury.
- Be sure to wear safety glasses or goggles to protect your eyes while performing maintenance tasks such as replacing parts.
- After reading the dealer's manual thoroughly, keep it in a safe place for later reference.

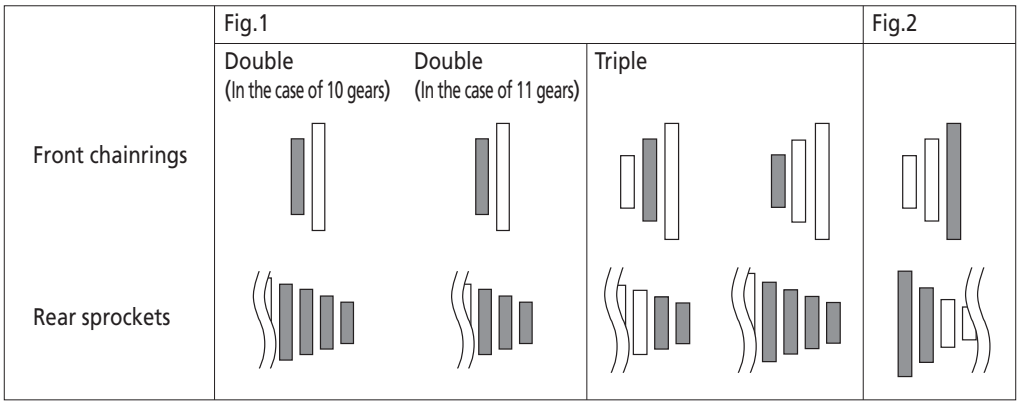
Be sure to also inform users of the following:

- Be careful not to let the hemming of your clothes get caught in the chain while riding, otherwise you may fall off the bicycle.

NOTE

Be sure to also inform users of the following:

- If gear shifting operations cannot be carried out smoothly, clean the derailleur and lubricate all moving parts.
- When the chain is in the position shown in the illustration, the chain may contact the front chainrings or front derailleur and generate noise. If noise is a problem, shift the chain onto the next larger rear sprocket or the one after if the chain is in the position shown in Figure 1. Shift the chain onto the next smaller sprocket or the one after if it is in the position shown in Figure 2.



For Installation to the Bicycle, and Maintenance:

- A triple front derailleur cannot be used for a double crankset because the shifting points do not match. A double front derailleur cannot also be used for a triple crankset.
- For frames with suspension, the chain stay angle will vary depending on whether the bicycle is being ridden or not being ridden.
- When the bicycle is not being ridden and the chain is positioned on the largest/larger chainring and on the smallest sprocket, the chain guide outer plate of the front derailleur may touch the chain.
- Use an outer casing [OT-SP41] and a cable guide (SM-SP17/SP18) for smooth operation.
- If the amount of looseness in the links is so great that adjustment is not possible, you should replace the derailleur.
- Products are not guaranteed against natural wear and deterioration from normal use and aging.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

The actual product may differ from the illustration because this manual is intended mainly to explain the procedures for using the product.

INSTALLATION

INSTALLATION

■ List of tools to be used

The following tools are required to assemble the product.

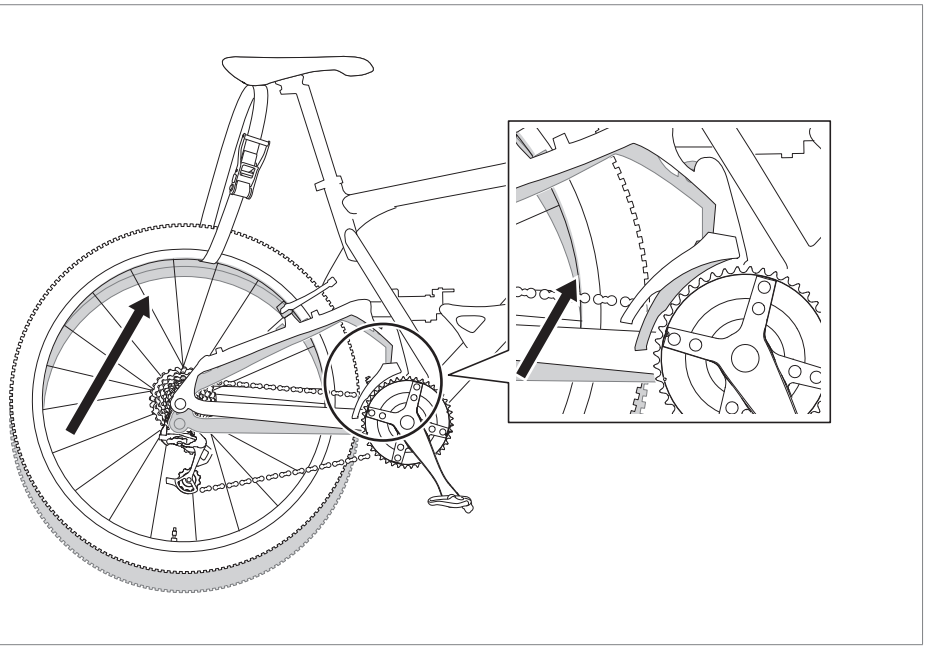
Tool		Tool	
2 mm	2 mm Allen key	#10	Hexalobular #10
4 mm	4 mm Allen key		

■ Installation of the front derailleur

NOTE

When installing components onto a carbon frame/handlebar, check the tightening torque recommended by the carbon frame or component manufacturer to avoid carbon material damage due to excessive tightening, or insufficient component holding force resulting from insufficient tightening torque.

Installation on rear suspension types



TECH TIPS

Bicycles with rear suspensions may be positioned differently when a rider is off the bicycle and on the bicycle. By referring to the illustration, perform installation and SIS adjustment with the bicycle fixed in a riding condition.

Installation of the front derailleur (Front triple) 8
Band type (FD-M9000/M8000/M672/M612) 8
Direct mount type (FD-M9000/M8000/M672/M612) 9
Type E (FD-M9000/M8000/M672/M612) 11

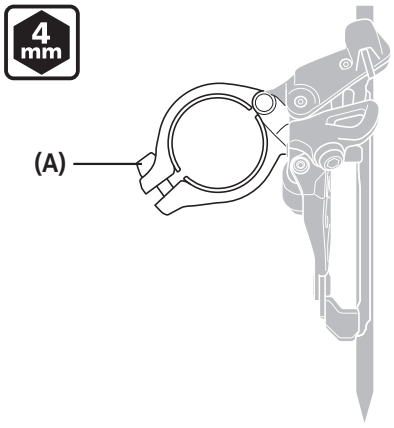
Installation of the front derailleur (Front double) 13
Band type (FD-M9020/M8020/M617/M677) 13
Band type (FD-M9025/M8025/M618) 14
Direct mount type (FD-M9020/M8020/M617/M677) 15
Direct mount type (FD-M9025/M8025/M618) 17
Type E (FD-M9020/M8020/M617/M677) 19
Type E (FD-M9025/M8025/M618) 21

■ Installation of the front derailleur (Front triple)

Band type (FD-M9000/M8000/M672/M612)

<Side swing>

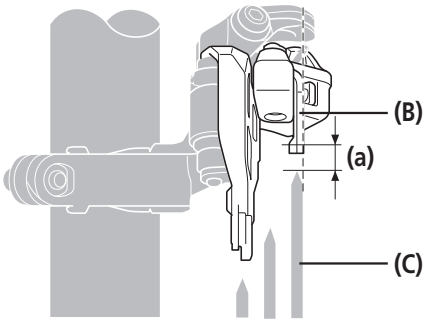
1



Temporarily attach the clamp bolt **(A)**.

(A) Clamp bolt

2



Align the flat portion of the chain guide outer plate **(B)** parallel to the flat surface of the largest chainring **(C)**.

Make sure that distance **(a)** from the tip of the teeth of the largest chainring is 1 to 3 mm.

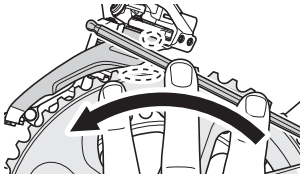
When the adjustment is complete, tighten the clamp bolt.

(B) Chain guide outer plate
(C) Largest chainring

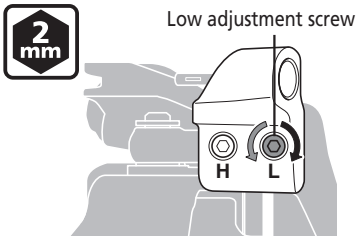
Tightening torque	
4 mm	5 - 7 N·m {44 - 61 in. lbs.}

TECH TIPS

- Check by holding an Allen key against the flat surface of the largest chainring as shown in the illustration.



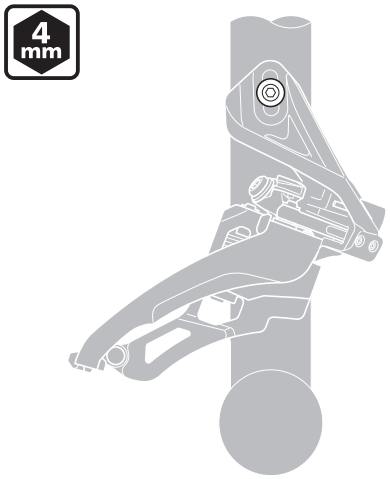
- When performing a readjustment etc. without a pro-set alignment block, align the flat surface of the largest chainring using the low adjustment bolt.



Direct mount type (FD-M9000/M8000/M672/M612)

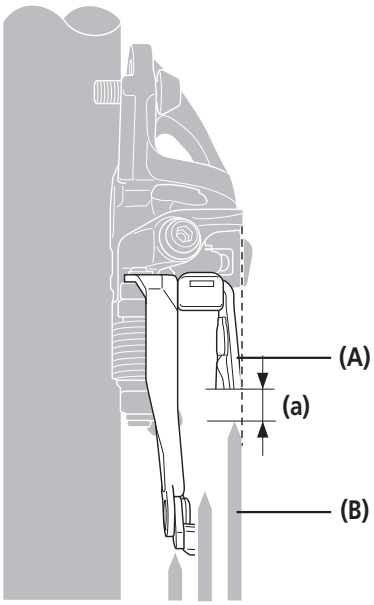
<Side swing>

1



Temporarily attach the front derailleur to the frame.

2



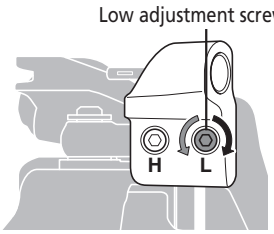
Align the flat portion of the chain guide outer plate **(A)** parallel to the flat surface of the largest chainring **(B)**.

Make sure that distance **(a)** from the tip of the teeth of the largest chainring is 1 to 3 mm.

(A) Chain guide outer plate
(B) Largest chainring

TECH TIPS

When performing a readjustment etc. without a pro-set alignment block, align the flat surface of the largest chainring using the low adjustment bolt.



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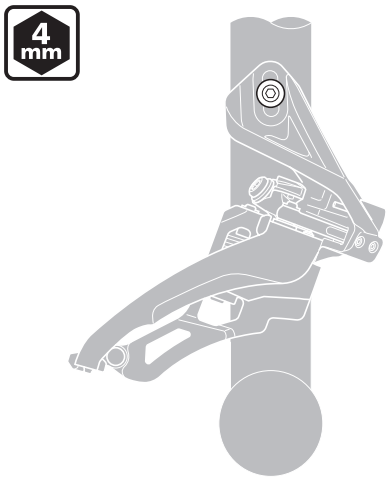
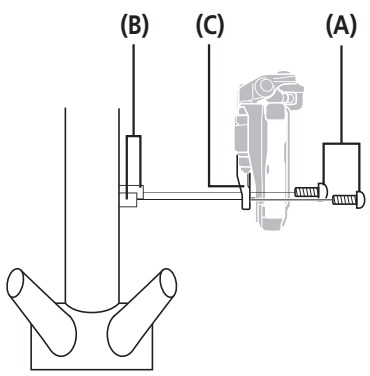
3		Fix the front derailleur.

Tightening torque	
4 mm	5 - 7 N·m {44 - 61 in. lbs.}

Type E (FD-M9000/M8000/M672/M612)

<Side swing>

1



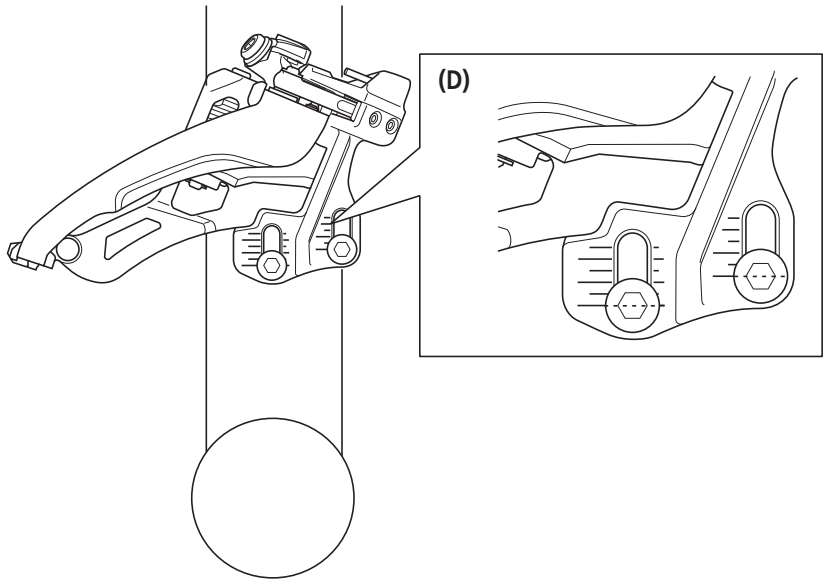
Install the front derailleur with the bottom bracket mount fixing bolt **(A)**.

(A) Bottom bracket mount fixing bolt
(B) Bottom bracket mount
(C) Bracket

NOTE

Shimano does not provide the bottom bracket mount fixing bolts.

<Fixing position>



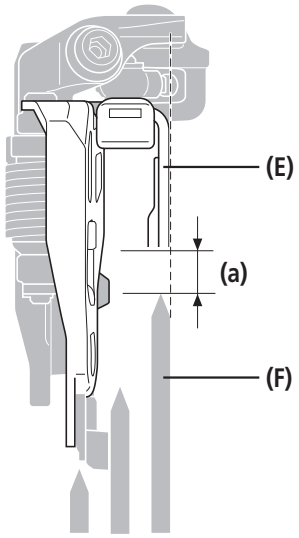
(D) Largest chainring 40T

TECH TIPS

There are some models compatible with 42T.

To be continued on next page

2



Align the flat portion of the chain guide outer plate **(E)** parallel to the flat surface of the largest chainring **(F)**.

Make sure that distance **(a)** from the tip of the teeth of the largest chainring is 1 to 3 mm after installing the front chainwheel.

If the distance does not fall within the range, adjust the fixing position with the elongated hole and fix the fixing bolt again.

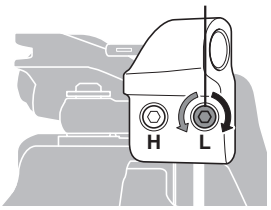
(E) Chain guide outer plate
(F) Largest chainring

TECH TIPS

When performing a readjustment etc. without a pro-set alignment block, align the flat surface of the largest chainring using the low adjustment bolt.

2 mm

Low adjustment screw

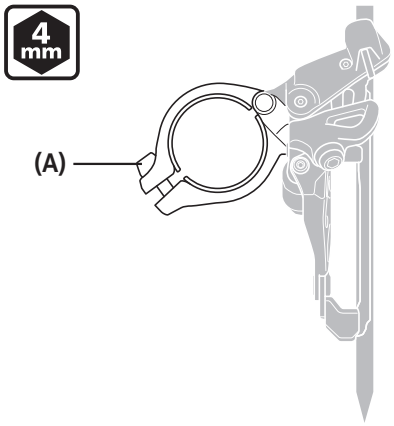


■ Installation of the front derailleur (Front double)

Band type (FD-M9020/M8020/M617/M677)

<Side swing>

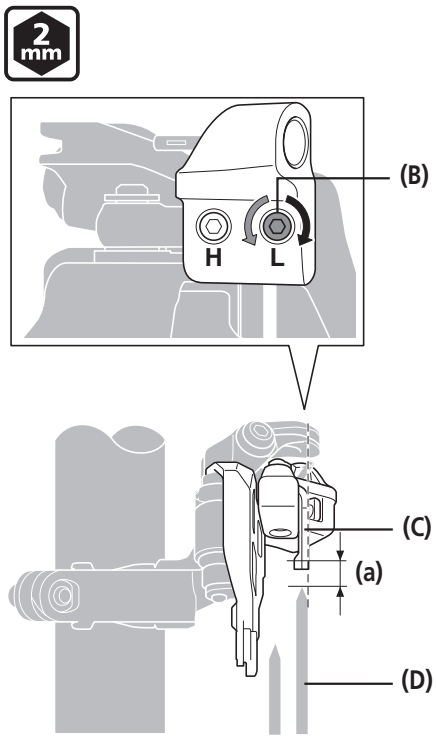
1



Temporarily attach the clamp bolt **(A)**.

(A) Clamp bolt

2



Adjust the low adjustment screw **(B)** to align the flat portion of the chain guide outer plate **(C)** parallel to the flat surface of the largest chainring **(D)**.

Make sure that distance **(a)** from the tip of the teeth of the largest chainring **(D)** is 1 to 3 mm.

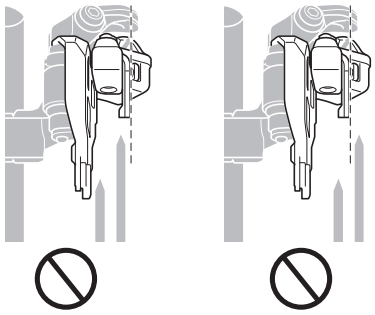
When the adjustment is complete, tighten the clamp bolt.

(B) Low adjustment screw
(C) Chain guide outer plate
(D) Largest chainring

Tightening torque	
4 mm	5 - 7 N·m {44 - 61 in. lbs.}

NOTE

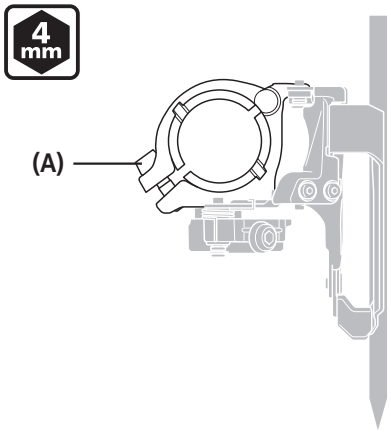
Make sure not to position the chain guide as show in the illustration.



Band type (FD-M9025/M8025/M618)

<Top swing / Down swing>

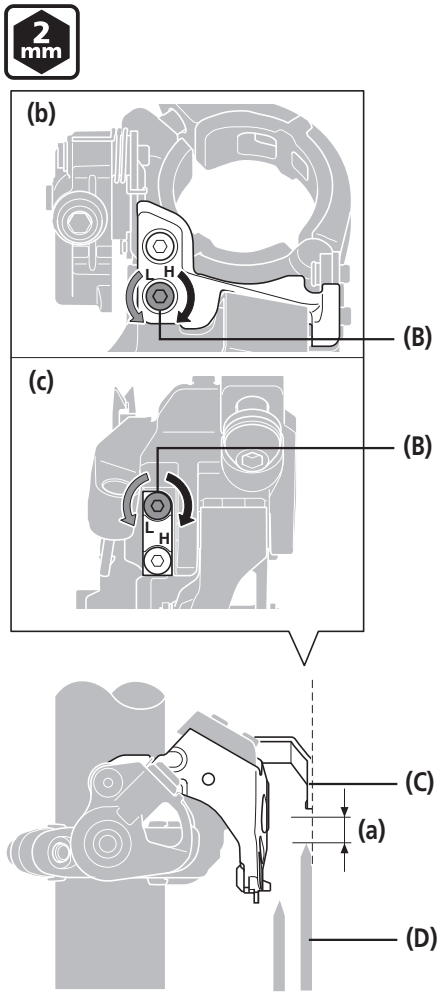
1



Temporarily attach the clamp bolt **(A)**.

(A) Clamp bolt

2



Adjust the low adjustment screw **(B)** to align the flat portion of the chain guide outer plate **(C)** parallel to the flat surface of the largest chainring **(D)**.

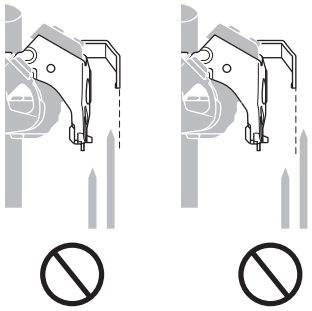
Make sure that distance **(a)** from the tip of the teeth of the largest chainring **(D)** is 1 to 3 mm.

(b) **Top swing**
(c) **Down swing**

(B) Low adjustment screw
(C) Chain guide outer plate
(D) Largest chainring

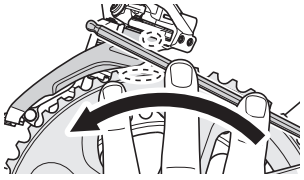
NOTE

Make sure not to position the chain guide as show in the illustration.



TECH TIPS

Check by holding an Allen key against the flat surface of the largest chainring as shown in the illustration.



3

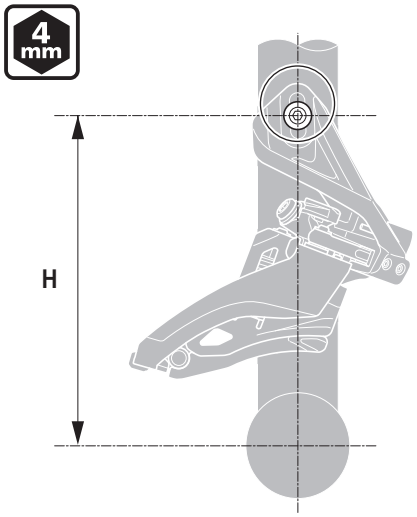
When the adjustment is complete, tighten the clamp bolt.

Tightening torque	
4 mm	5 - 7 N·m {44 - 61 in. lbs.}

Direct mount type (FD-M9020/M8020/M617/M677)

<Side swing>

1



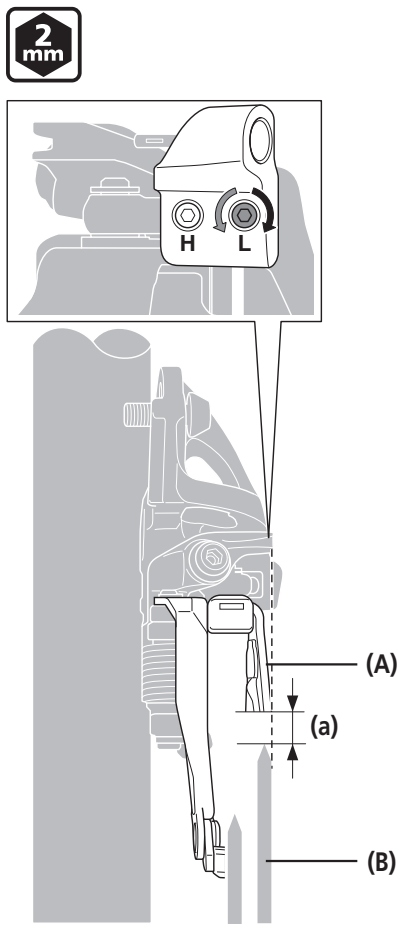
Temporarily attach the front derailleur to the frame.

NOTE

Compatible chainrings vary depending on mount height H. Be sure to check the frame dimensions.

H	Compatible largest chainring
155.5 mm	34T - 36T
159.5 mm	36T - 38T

2



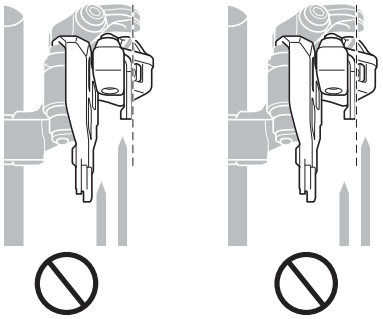
Adjust the low adjustment screw to align the flat portion of the chain guide outer plate **(A)** parallel to the flat surface of the largest chainring **(B)**.

Make sure that distance **(a)** from the tip of the teeth of the largest chainring **(B)** is 1 to 3 mm.

(A) Chain guide outer plate
(B) Largest chainring

NOTE

Make sure not to position the chain guide as show in the illustration.



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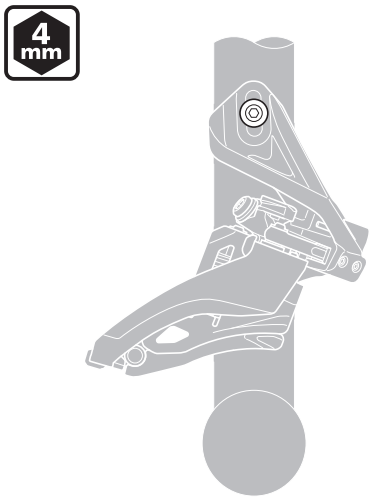
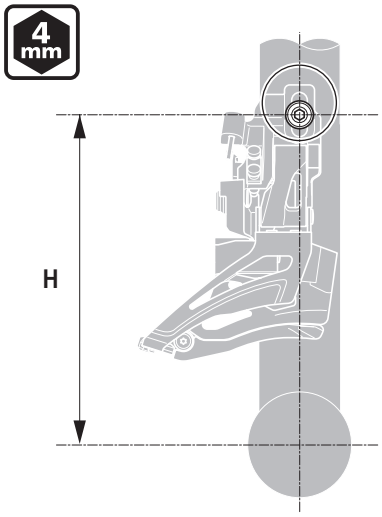
3		Fix the front derailleur.

Tightening torque	
4 mm	5 - 7 N·m {44 - 61 in. lbs.}

Direct mount type (FD-M9025/M8025/M618)

< Down swing >

1



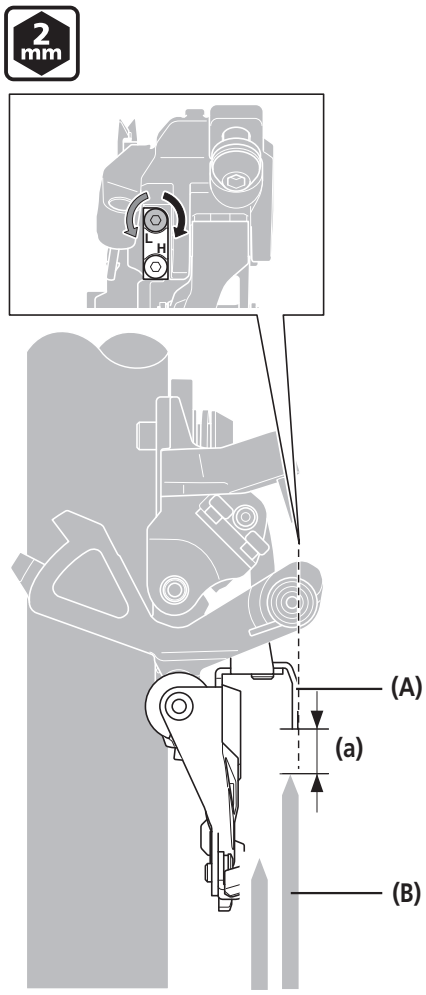
Temporarily attach the front derailleur to the frame.

NOTE

Compatible chainrings vary depending on mount height H. Be sure to check the frame dimensions.

H	Compatible largest chainring
155.5 mm	34T - 36T
159.5 mm	36T - 38T

2



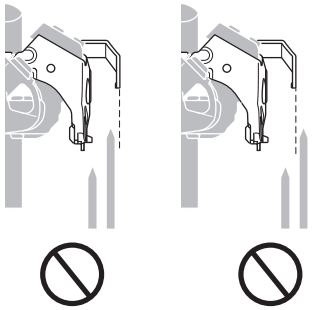
Adjust the low adjustment screw to align the flat portion of the chain guide outer plate **(A)** parallel to the flat surface of the largest chainring **(B)**.

Make sure that distance **(a)** from the tip of the teeth of the largest chainring **(B)** is 1 to 3 mm.

(A) Chain guide outer plate
(B) Largest chainring

NOTE

Make sure not to position the chain guide as show in the illustration.



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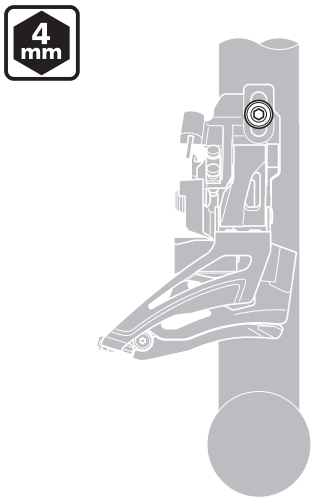
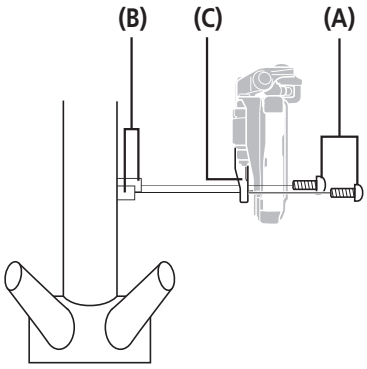
3		Fix the front derailleur.

Tightening torque	
4 mm	5 - 7 N·m {44 - 61 in. lbs.}

Type E (FD-M9020/M8020/M617/M677)

<Side swing>

1



Fix with the bottom bracket mount fixing bolt **(A)**.

The fixing position varies depending on the number of gear teeth used.

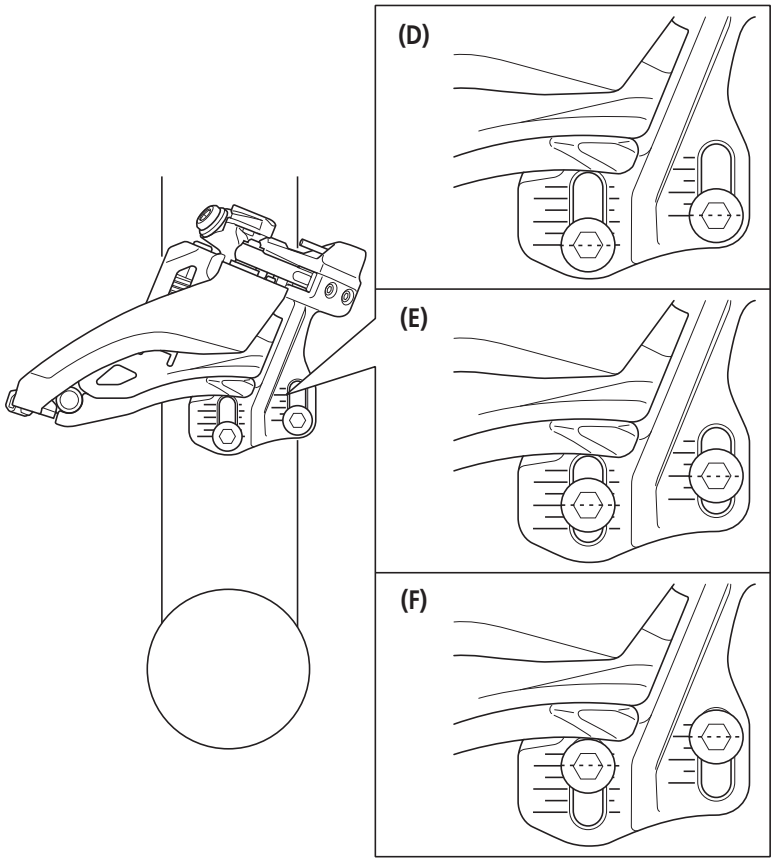
See below for the fixing position.

(A) Bottom bracket mount fixing bolt
(B) Bottom bracket mount
(C) Bracket

NOTE

Shimano does not provide the bottom bracket mount fixing bolts.

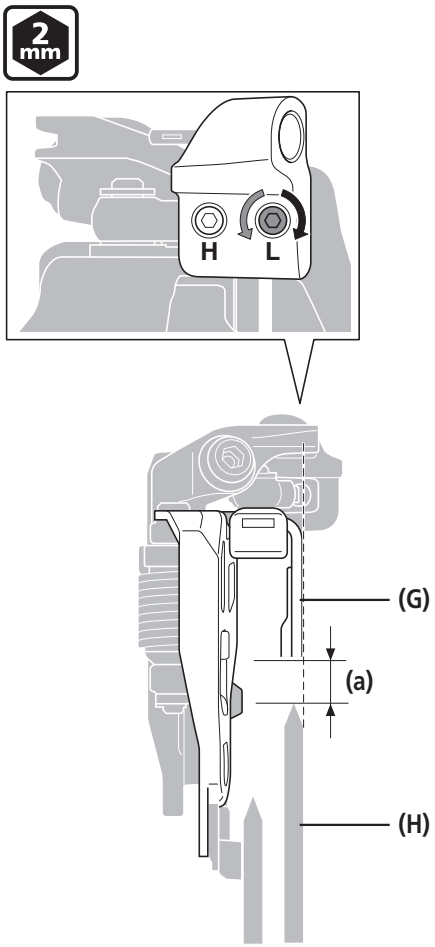
<Fixing position>



(D) Largest chainring 38T
(E) Largest chainring 36T
(F) Largest chainring 34T

To be continued on next page

2



Adjust the low adjustment screw to align the flat portion of the chain guide outer plate **(G)** parallel to the flat surface of the largest chainring **(H)**.

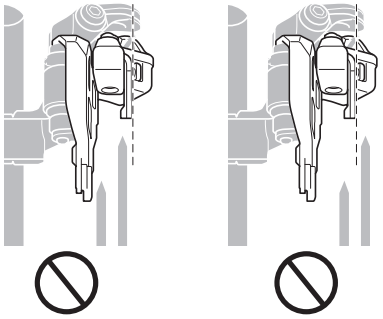
Make sure that distance **(a)** from the tip of the teeth of the largest chainring **(H)** is 1 to 3 mm after installing the front chainwheel.

If the distance does not fall within the range, adjust the fixing position with the elongated hole and fix the fixing bolt again.

(G) Chain guide outer plate
(H) Largest chainring

NOTE

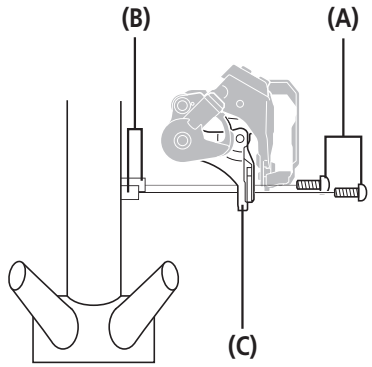
Make sure not to position the chain guide as show in the illustration.



Type E (FD-M9025/M8025/M618)

< Top swing >

1



Fix with the bottom bracket mount fixing bolt **(A)**.

The fixing position varies depending on the number of gear teeth used.

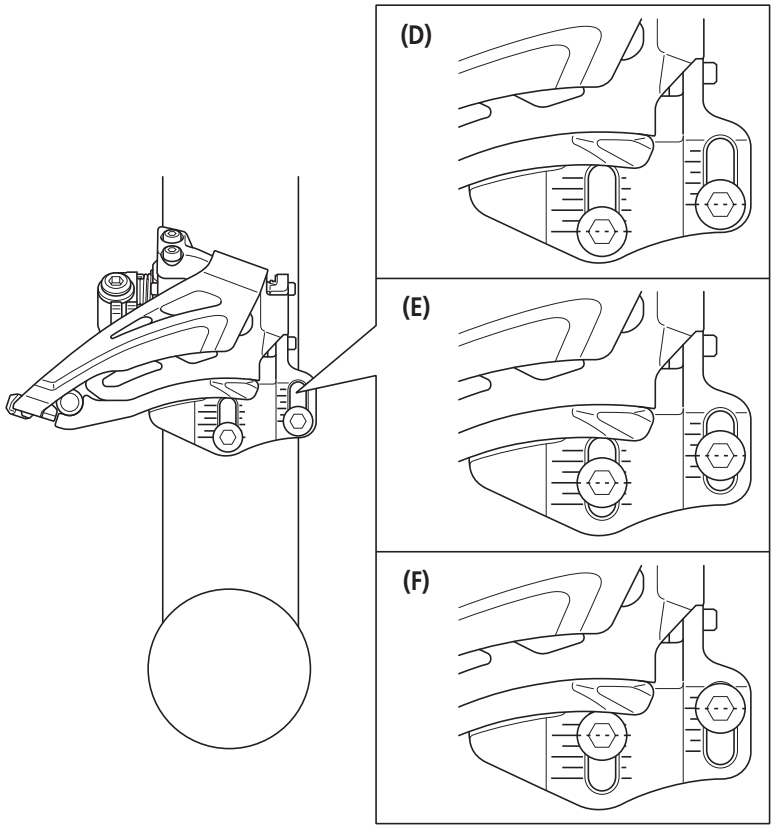
See below for the fixing position.

(A) Bottom bracket mount fixing bolt
(B) Bottom bracket mount
(C) Bracket

NOTE

Shimano does not provide the bottom bracket mount fixing bolts.

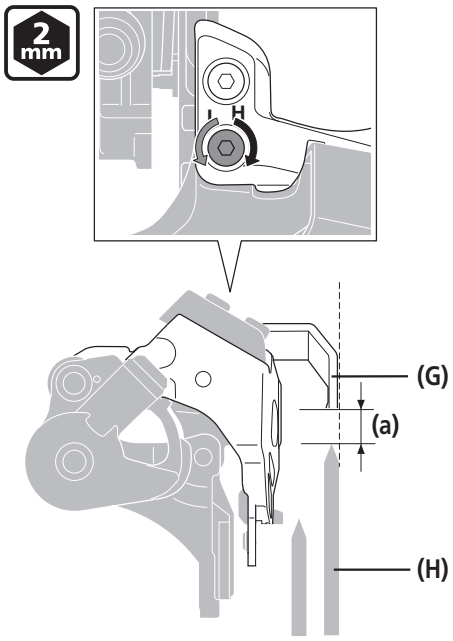
<Fixing position>



(D) Double:
Largest chainring 38T
(E) Double:
Largest chainring 36T
(F) Double:
Largest chainring 34T

To be continued on next page

2



Adjust the low adjustment screw to align the flat portion of the chain guide outer plate **(G)** parallel to the flat surface of the largest chainring **(H)**.

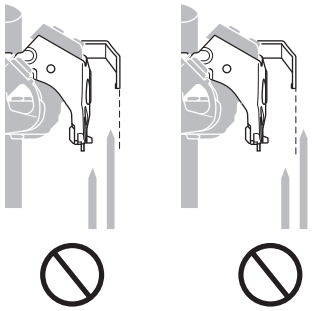
Make sure that distance **(a)** from the tip of the teeth of the largest chainring **(H)** is 1 to 3 mm after installing the front chainwheel.

If the distance does not fall within the range, adjust the fixing position with the elongated hole and fix the fixing bolt again.

(G) Chain guide outer plate
(H) Largest chainring

NOTE

Make sure not to position the chain guide as show in the illustration.



ADJUSTMENT

Installing the cable and adjusting the shifting operation (Front triple) 25

Position adjustment of the low side 25
Securing the cable 26
Adjustment of the cable tension 28
Top adjustment 29
Troubleshooting chart 30

Installing the cable and adjusting the shifting operation (Front double) 31

Note: Number of front chainring positions and the lever position 31
Notes on using the mode converter 31
Position adjustment of the low side 32
Securing the cable 33
Adjustment of the cable tension 38
Top adjustment 39
Troubleshooting chart 40

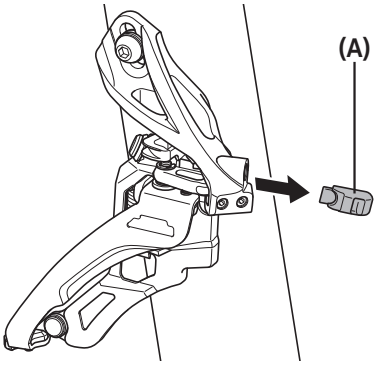
ADJUSTMENT

The adjustment differs depending on whether the bicycle features front triples or front doubles.
Check the adjustment method that matches the specifications of your bicycle.

■ Installing the cable and adjusting the shifting operation (Front triple)

Position adjustment of the low side

1



Remove the Pro-Set alignment block **(A)**.

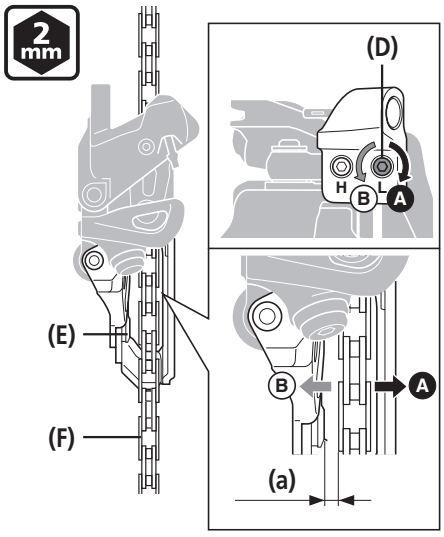
(A) Pro-Set alignment block

2

Adjust the chain position to the smallest chainring **(B)** and the largest sprocket **(C)** as shown in the illustration.

(B) Smallest chainring
(C) Largest sprocket

3



Adjust the position of the chain guide with the low adjustment screw **(D)**.

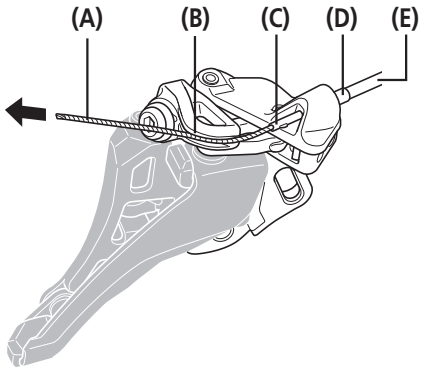
Adjust the clearance **(a)** between the chain guide inner plate **(E)** and the chain **(F)** to be 0 - 0.5 mm.

(D) Low adjustment screw
(E) Chain guide inner plate
(F) Chain

Securing the cable

<Side swing>

1



Adjust the shifting lever to the low position.

Run the cable through the front derailleur.

Run the inner cable **(A)** along the cable guide **(B)**.

(A) Inner cable
(B) Cable guide
(C) Cover with tongue
(D) Sealed outer cap
(E) Outer cable

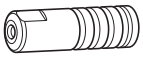
NOTE

- Replacing the cover with tongue is recommended when replacing the inner cable.

Cover with tongue

* The cover with tongue is provided only with FD-M9000.

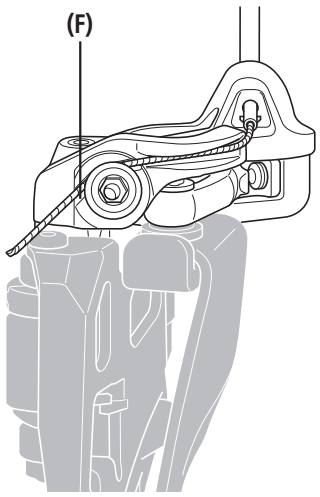
- Fuzz may be generated when the inner cable is installed or when the coating is damaged during use, but this will not affect its functions.
- If the behavior of outer casing parts such as the suspension frame is greatly affected, then using an aluminum type sealed outer cap is recommended.



Sealed outer cap

Sealed outer cap (aluminum type)

2

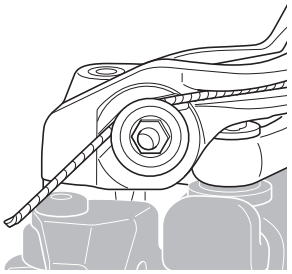


Pass the inner cable through along the cable-fixing groove **(F)** on the top of the fixing bolt.

(F) Cable-fixing groove

NOTE

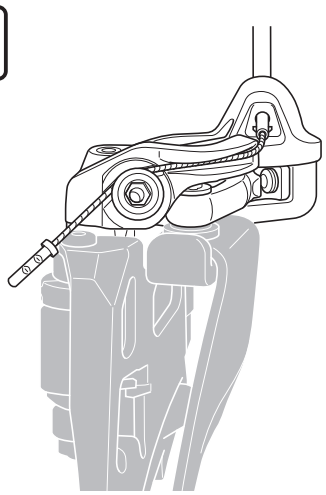
Be sure to run the inner cable along the cable-fixing groove as shown in the illustration.



To be continued on next page

Installing the cable and adjusting the shifting operation (Front triple)

3

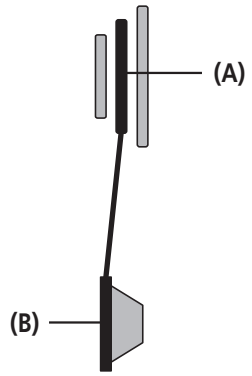


Fix the inner cable with a cable-fixing bolt.

Tightening torque	
4 mm	6 - 7 N·m {53 - 61 in. lbs.}

Adjustment of the cable tension

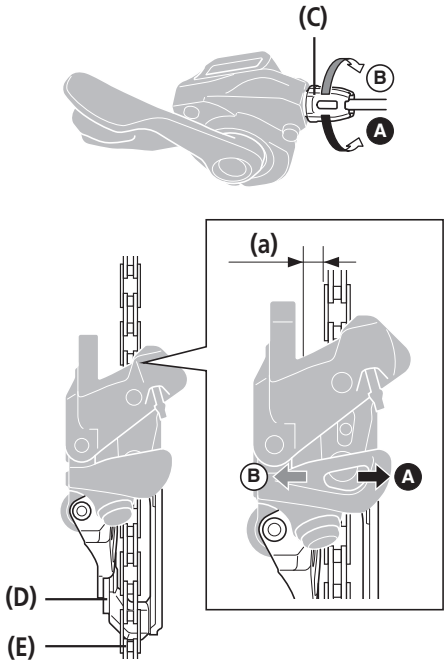
1



Adjust the chain position to the middle chainring **(A)** and the largest sprocket **(B)** as shown in the illustration.

(A) Middle chainring
(B) Largest sprocket

2



Adjust the position with the cable adjuster **(C)**.

Adjust the clearance **(a)** between the chain guide inner plate **(D)** and the chain **(E)** to be 0 - 0.5 mm.

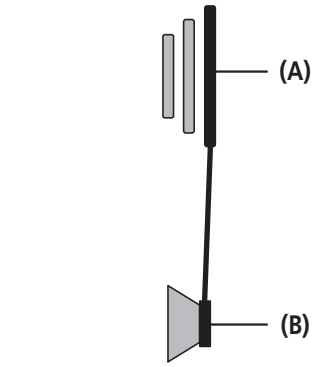
(C) Cable adjuster
(D) Chain guide inner plate
(E) Chain

TECH TIPS

After adjusting the position with the cable adjuster, operate the lever once and check the clearance again.

Top adjustment

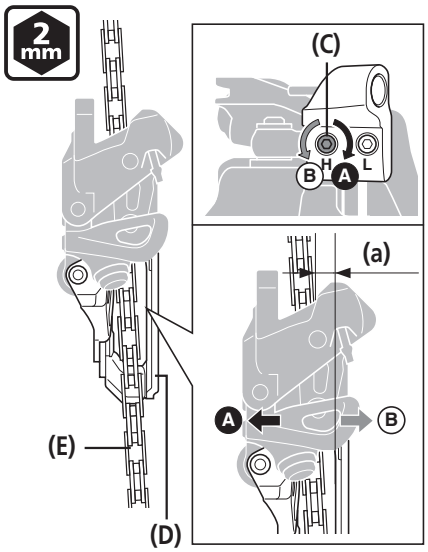
1



Adjust the chain position to the largest chainring **(A)** and the smallest sprocket **(B)** as shown in the illustration.

(A) Largest chainring
(B) Smallest sprocket

2



Adjust the position of the chain guide with the top adjustment screw **(C)**.

Adjust the clearance **(a)** between the chain guide outer plate **(D)** and the chain **(E)** to be 0 - 0.5 mm.

(C) Top adjustment screw
(D) Chain guide outer plate
(E) Chain

Troubleshooting chart

After the cable is installed and adjusted, check the gear-shift by operating the shifting lever.
(This also applies if shifting becomes difficult during use.)
Use the table as a reference to make adjustments to the bolts. Turn the bolt by 1/8th turn for each adjustment.

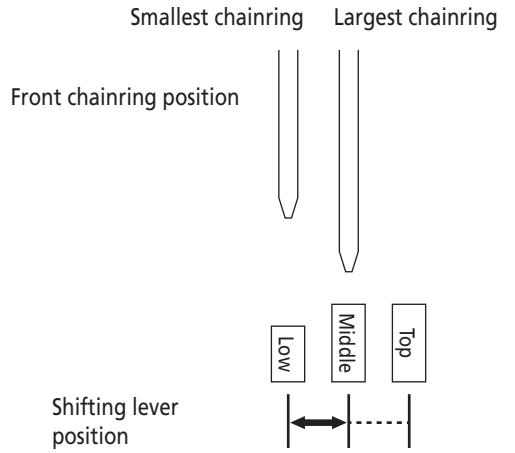
If the chain falls to the crank side.	▶	Turn the top adjustment screw clockwise.
If shifting is difficult from the middle chainring to the largest chainring.	▶	Tighten the cable. If this does not improve the condition, turn the top adjustment screw counterclockwise.
If shifting is difficult from the largest chainring to the middle chainring.	▶	Loosen the cable.
If the chain falls to the bottom bracket side.	▶	Turn the low adjustment screw clockwise.
If the middle chainring is skipped when shifting from the largest chainring.	▶	Tighten the cable.
If shifting is difficult from the middle chainring to the smallest chainring.	▶	Turn the low adjustment screw counterclockwise.

■ Installing the cable and adjusting the shifting operation (Front double)

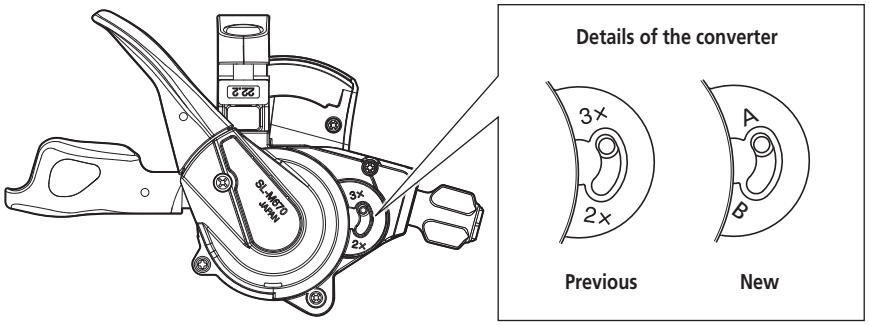
Note: Number of front chainring positions and the lever position

The procedure for shifting lever operation is as follows.

< For double front chainrings >
Use the low and middle positions of the shifter. The top position is not used.



Notes on using the mode converter



Mode converter positions on the shift lever

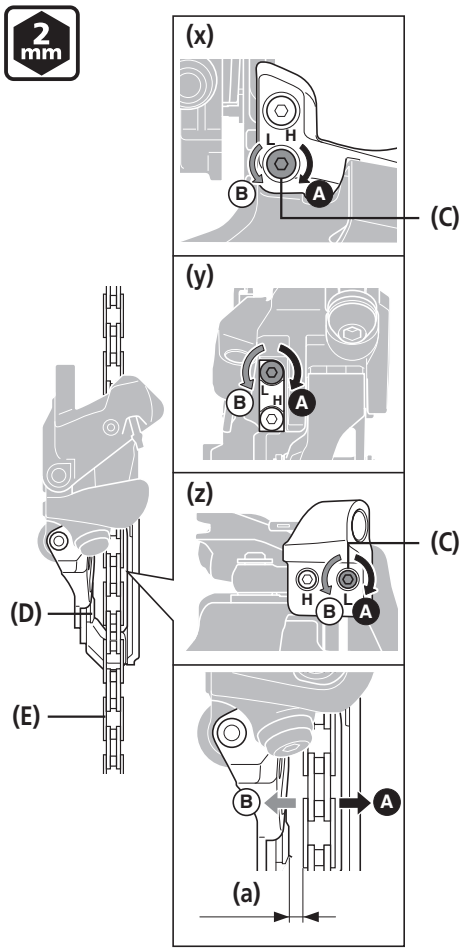
Position adjustment of the low side

1

Adjust the chain position to the smallest chainring **(A)** and the largest sprocket **(B)** as shown in the illustration.

(A) Smallest chainring
(B) Largest sprocket

2



Adjust the position of the chain guide with the low adjustment screw **(C)**.

Adjust the clearance **(a)** between the chain guide inner plate **(D)** and the chain **(E)** to be 0 - 0.5 mm.

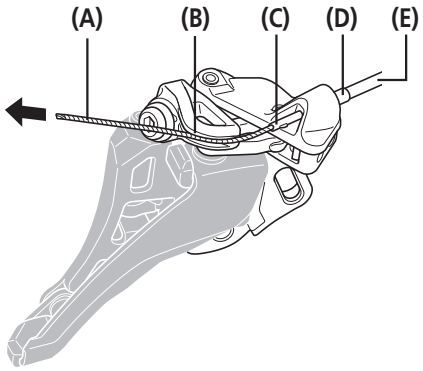
(x) **Top swing**
(y) **Down swing**
(z) **Side swing**

(C) Low adjustment screw
(D) Chain guide inner plate
(E) Chain

Securing the cable

<Side swing (FD-M9020/M8020/M617/M677)>

1



Adjust the shifting lever to the low position.

Run the cable through the front derailleur.

Run the inner cable **(A)** along the cable guide **(B).**

(A) Inner cable
(B) Cable guide
(C) Cover with tongue
(D) Sealed outer cap
(E) Outer cable

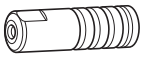
NOTE

- Replacing the cover with tongue is recommended when replacing the inner cable.

Cover with tongue

* The cover with tongue is provided only with FD-M9020.

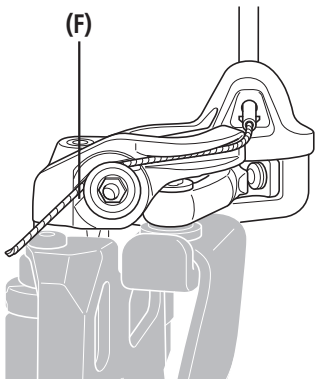
- Fuzz may be generated when the inner cable is installed or when the coating is damaged during use, but this will not affect its functions.
- If the behavior of outer casing parts such as the suspension frame is greatly affected, then using an aluminum type sealed outer cap is recommended.



Sealed outer cap

Sealed outer cap (aluminum type)

2

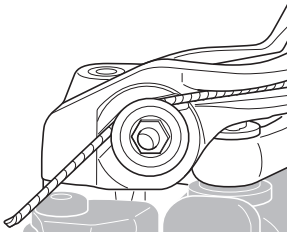


Pass the inner cable through along the cable-fixing groove **(F)** on the top of the fixing bolt.

(F) Cable-fixing groove

NOTE

Be sure to run the inner cable along the cable-fixing groove as shown in the illustration.



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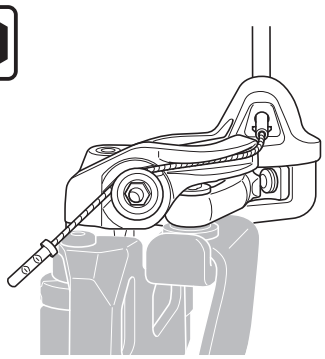
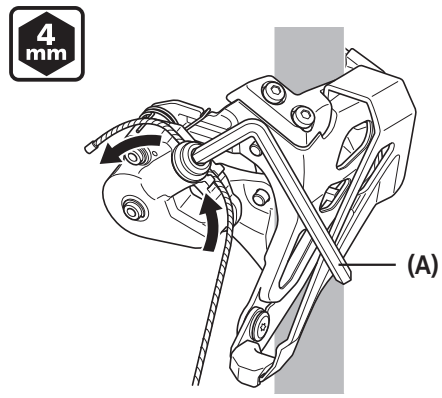
3



Fix the inner cable with a cable-fixing bolt.

Tightening torque	
4 mm	6 - 7 N·m {53 - 61 in. lbs.}

<Top swing (Common to E Type and band type) (FD-M9025/M8025/M618)>

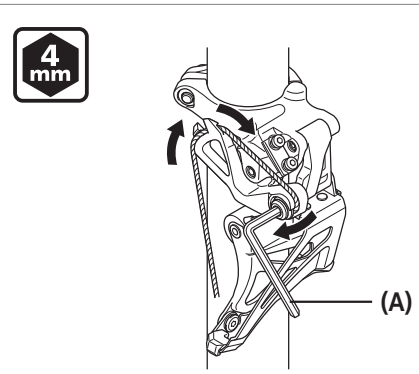


Use an Allen key to tighten the wire fixing bolt.

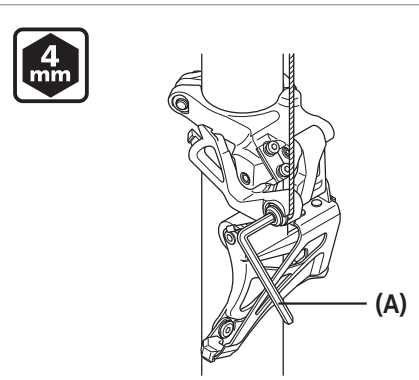
(A) 4 mm Allen key

Tightening torque	
4 mm	**6 - 7 N·m {53 - 61 in. lbs.}**

<Down swing type (Band type) (FD-M9025/M8025/M618)>



For down-pull types
Pass the inner cable through the cable guide as shown in the illustration.



For top-pull types
Pass the inner cable through the wire fixing bolt as shown in the illustration.

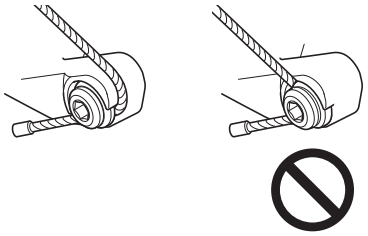
The cable guide is not used.

(A) 4 mm Allen key

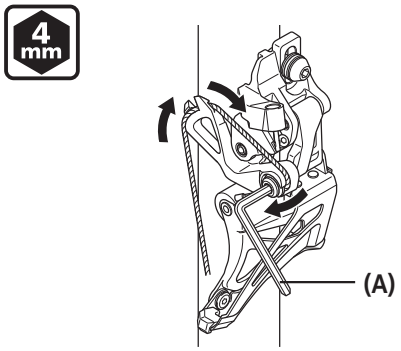
Tightening torque	
4 mm	**6 - 7 N·m {53 - 61 in. lbs.}**

NOTE

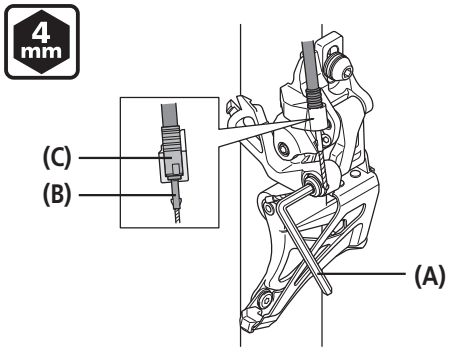
Run the cable through as shown in the illustration.



<Down swing (Direct mount type) (FD-M9025/M8025/M618)>



For down-pull types
Pass the inner cable through the cable guide as shown in the illustration.



For top-pull types
Install the sealed outer cap **(C)** as shown in the illustration and pass the inner cable through the wire mounting bolt.

The cable guide is not used.

(A) 4 mm Allen key
(B) Cover with tongue
(C) Sealed outer cap

Tightening torque	
4 mm	6 - 7 N·m {53 - 61 in. lbs.}

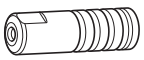
NOTE

- Replacing the cover with tongue is recommended when replacing the inner cable.

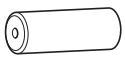
Cover with tongue

* The cover with tongue is provided only with FD-M9025.

- Fuzz may be generated when the inner cable is installed or when the coating is damaged during use, but this will not affect its functions.
- If the behavior of outer casing parts such as the suspension frame is greatly affected, then using an aluminum type sealed outer cap is recommended.

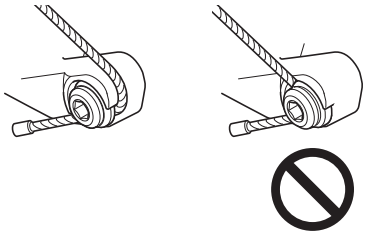


Sealed outer cap



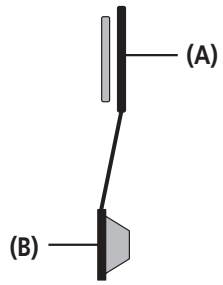
Sealed outer cap (aluminum type)

- Run the cable through as shown in the illustration.



Adjustment of the cable tension

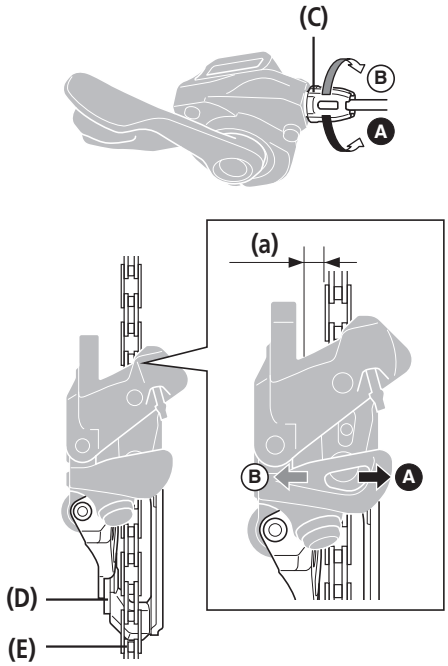
1



Adjust the chain position to the largest chainring **(A)** and the largest sprocket **(B)** as shown in the illustration.

(A) Largest chainring
(B) Largest sprocket

2



Adjust the position with the cable adjuster **(C)**.

Adjust the clearance **(a)** between the chain guide inner plate **(D)** and the chain **(E)** to be 0 - 0.5 mm.

(C) Cable adjuster
(D) Chain guide inner plate
(E) Chain

TECH TIPS

After adjusting the position with the cable adjuster, operate the lever once and check the clearance again.

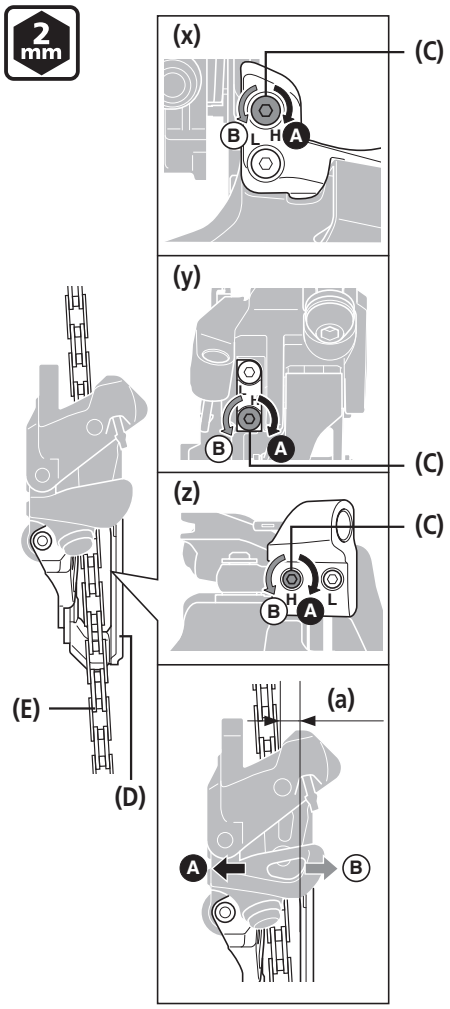
Top adjustment

1

Adjust the chain position to the largest chainring **(A)** and the smallest sprocket **(B)** as shown in the illustration.

(A) Largest chainring
(B) Smallest sprocket

2



Adjust the position of the chain guide with the top adjustment screw **(C)**.

Adjust the clearance **(a)** between the chain guide outer plate **(D)** and the chain **(E)** to be 0 - 0.5 mm.

(x) Top swing
(y) Down swing
(z) Side swing

(C) Top adjustment screw
(D) Chain guide outer plate
(E) Chain

Troubleshooting chart

After the cable is installed and adjusted, check the gear-shift by operating the shifting lever.
(This also applies if shifting becomes difficult during use.)
Use the table as a reference to make adjustments to the bolts. Turn the bolt by 1/8th turn for each adjustment.

If the chain falls to the crank side.	▶	Turn the top adjustment screw clockwise.
If shifting is difficult from the smallest chainring to the largest chainring.	▶	Tighten the cable. If this does not improve the condition, turn the top adjustment screw counterclockwise.
If shifting is difficult from the largest chainring to the smallest chainring.	▶	Loosen the cable.
If the chain falls to the bottom bracket side.	▶	Tighten the cable. If this does not improve the condition, turn the low adjustment screw clockwise.

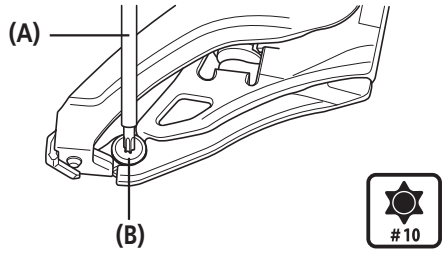
MAINTENANCE

MAINTENANCE

■ Replacing the chain catcher

Depending on the specifications, there are also models without chain catcher.

Removal

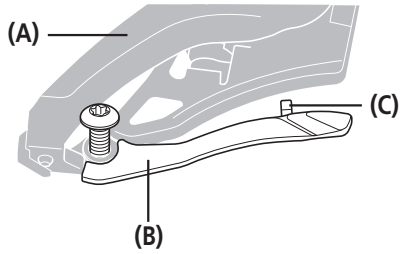


Remove the fixing bolt **(B)**.

(A) Hexalobular #10
(B) Fixing bolt

INSTALLATION

1

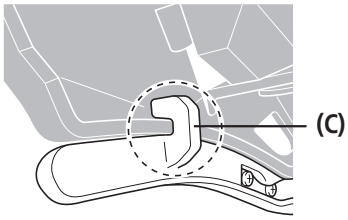


Temporarily attach the chain catcher **(B)** to the chain guide **(A)**.

(A) Chain guide
(B) Chain catcher
(C) Arm of the chain catcher

To be continued on next page

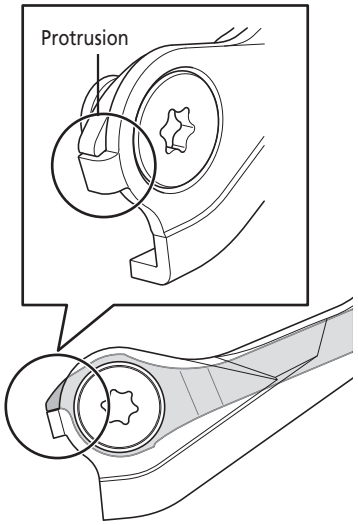
2



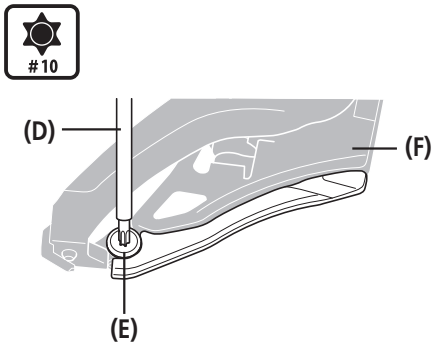
Securely install the arm of the chain catcher **(C)** as shown in the illustration.

NOTE

- The shape of the chain catcher may differ depending on the model.
  Be sure to use a compatible chain catcher.
- In the case of a chain catcher as shown in the illustration, take note of the protrusion positions while carrying out replacement.



3



Fix the chain catcher **(B)** to the chain guide inner plate **(F)**.

(D) Hexalobular #10
(E) Fixing bolt
(F) Chain guide inner plate

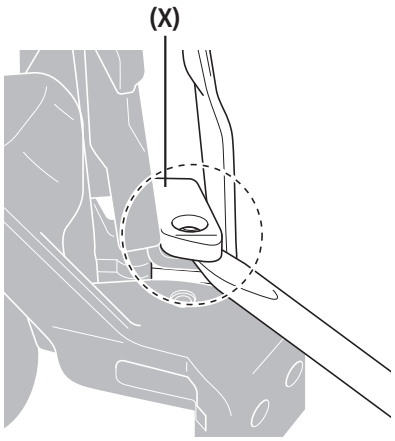
Tightening torque	
#10	**1 - 2 N·m {9 - 17 in. lbs.}**

■ Replacing rubber pad A

Depending on the specifications, there are also models without rubber pad A.

Removal

1

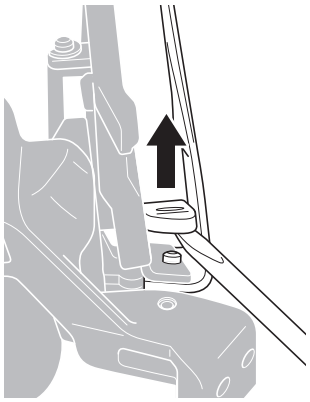


Remove rubber pad A **(X).**

Insert a small slotted screwdriver into the gap as shown in the illustration.

(X) Rubber pad A

2



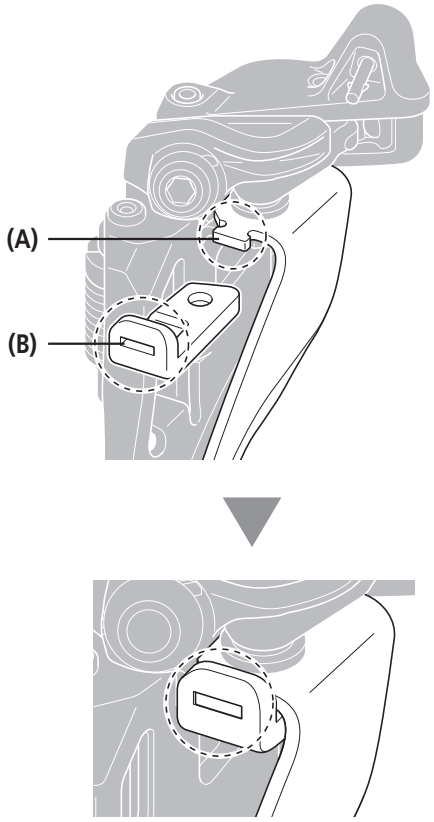
Lift rubber pad A to remove it.

NOTE

- When removing rubber pad A, do not apply excessive force. It may cause damage to the chain guide or unexpected injuries.
- Do not reuse rubber pads that have been removed. The rubber pad may become loose due to deformation etc.

INSTALLATION

1



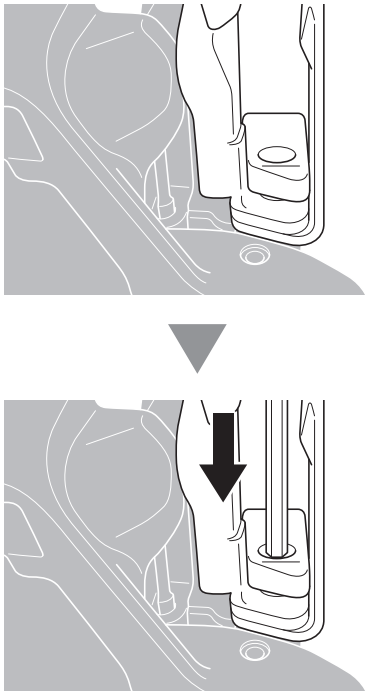
Install rubber pad A.

Fit the elongated hole **(B)** to the arm of rubber pad A **(A)**.

Push in the rubber pad A firmly to the end of the arm.

(A) Arm of rubber pad A
(B) Elongated hole

2

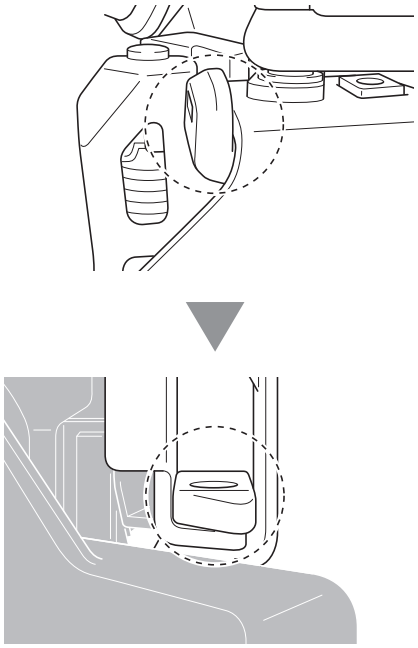


Align the protrusion of rubber pad A with the chain guide hole.

Lightly push in rubber pad A with an 8 mm Allen key.

Firmly insert rubber pad A.

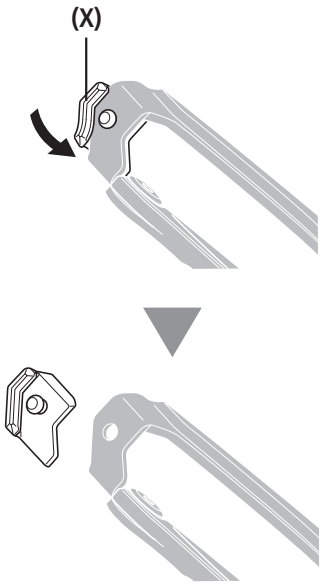
Check



Make sure that rubber pad A is securely attached to the chain guide.

■ Replacing rubber pad B

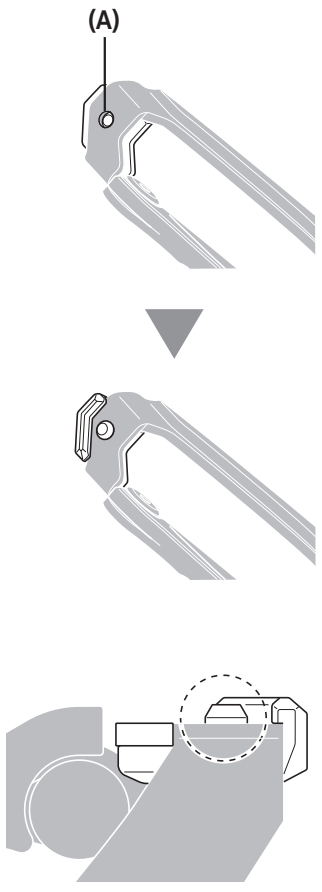
Removal



Turn over rubber pad B **(X)** from the backside of the chain guide and remove it.

(X) Rubber pad B

INSTALLATION



Align the rubber pad B mounting hole **(A)** of the chain guide with the protrusion of rubber pad B.

Push in the protrusion from the backside of rubber pad B.

Make sure that the protrusion of rubber pad B is securely fitted on the chain guide.

(A) Rubber pad B mounting hole

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